



2-point	$f'(x_0) = \frac{f(x_0+h)-f(x_0)}{h}$	$-\frac{h}{2}f''(\xi_h)$	forward diff.
	$f'(x_0) = \frac{f(x_0)-f(x_0-h)}{h}$	$+\frac{h}{2}f''(\xi_h)$	backward diff.
3-point	$f'(x_0) = \frac{-3f(x_0)+4f(x_0+h)-f(x_0+2h)}{2h}$	$+\frac{h^2}{3}f'''(\xi_h)$	forward diff.
	$f'(x_0) = \frac{f(x_0+h)-f(x_0-h)}{2h}$	$+\frac{h^2}{6}f'''(\xi_h)$	centered diff.
	$f'(x_0) = \frac{f(x_0-2h)-4f(x_0-h)+3f(x_0)}{2h}$	$+\frac{h^2}{3}f'''(\xi_h)$	backward diff.
5-point	$f'(x_0) = \frac{-25f(x_0)+48f(x_0+h)-36f(x_0+2h)+16f(x_0+3h)-3f(x_0+4h)}{12h}$	$+\frac{h^4}{5}f^{(5)}(\xi_h)$	forward diff. I
	$f'(x_0) = \frac{-3f(x_0-h)-10f(x_0)+18f(x_0+h)-6f(x_0+2h)+f(x_0+3h)}{12h}$	$+\frac{h^4}{20}f^{(5)}(\xi_h)$	forward diff. II
	$f'(x_0) = \frac{f(x_0-2h)-8f(x_0-h)+8f(x_0+h)-f(x_0+2h)}{12h}$	$+\frac{h^4}{30}f^{(5)}(\xi_h)$	centered diff.
	$f'(x_0) = \frac{-f(x_0-3h)+6f(x_0-2h)-18f(x_0-h)+10f(x_0)+3f(x_0+h)}{12h}$	$+\frac{h^4}{20}f^{(5)}(\xi_h)$	backward diff. I
	$f'(x_0) = \frac{3f(x_0-4h)-16f(x_0-3h)+36f(x_0-2h)-48f(x_0-h)+25f(x_0)}{12h}$	$+\frac{h^4}{5}f^{(5)}(\xi_h)$	backward diff. II
3-point	$f''(x_0) = \frac{f(x_0)-2f(x_0+h)+f(x_0+2h)}{h^2}$	$+O(hf^{(3)}(\xi_h))$	forward diff.
	$f''(x_0) = \frac{f(x_0-h)-2f(x_0)+f(x_0+h)}{h^2}$	$+O(h^2f^{(4)}(\xi_h))$	centered diff.
4-point	$f''(x_0) = \frac{2f(x_0)-5f(x_0+h)+4f(x_0+2h)-f(x_0+3h)}{h^2}$	$+O(h^2f^{(4)}(\xi_h))$	forward diff
	$f''(x_0) = \frac{2f(x_0)-5f(x_0-h)+4f(x_0-2h)-f(x_0-3h)}{h^2}$	$+O(h^2f^{(4)}(\xi_h))$	backward diff
5-point	$f''(x_0) = \frac{35f(x_0)-104f(x_0+h)+114f(x_0+2h)-56f(x_0+3h)+11f(x_0+4h)}{12h^2}$	$+O(h^3f^{(5)}(\xi_h))$	forward diff. I
	$f''(x_0) = \frac{11f(x_0-h)-20f(x_0)+6f(x_0+h)+4f(x_0+2h)-f(x_0+3h)}{12h^2}$	$+O(h^3f^{(5)}(\xi_h))$	forward diff. II
	$f''(x_0) = \frac{-f(x_0-2h)+16f(x_0-h)-30f(x_0)+16f(x_0+h)-f(x_0+2h)}{12h^2}$	$+O(h^4f^{(6)}(\xi_h))$	centered diff.